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Geoenvironmental Engineering and Technologies

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September 7, 1990

Mr. Mike Kuntz
Washington State Department of Ecology
M/S PV-11
Olympia, WA 98504-8711

RE: **AUGUST 1990 PROGRESS REPORT
COLBERT LANDFILL RD/RA**

Dear Mr. Kuntz:

Presented herein is the August 1990 Progress Report for the Colbert Landfill RD/RA Superfund Project (Project), which was prepared by Landau Associates, Inc., Spokane County's engineering consultant. It addresses the reporting requirements specified in Section XI of the Project Consent Decree, including:

- A description of remedial action activities commenced or completed during the reporting period
- Remedial action activities projected for the next reporting period (through September 1990)
- Any problems that have been encountered or are anticipated.

1.0 ACTIVITIES COMMENCED/COMPLETED DURING REPORTING PERIOD

Several activities were commenced and/or completed during the reporting period. Most of these activities are related to continuation of Phase I field activities and pilot study final design. Specifically, activities accomplished during this period include:

- Phase I well construction activities were completed. Pilot Well CP-W1 was completed, and is screened from about 280 to 300 feet below ground surface (BGS).
- Well development was completed for wells CD-47 and CP-W1. Air lift development was used for both wells.
- Ground water sampling was completed for Wells CD-2(U), CD-6(U), CD-47, CP-W1, CS-4 and CS-14(U). Monitoring Well CS-13 was not sampled (as planned) because of insufficient water.
- The pilot air stripping tower vendor was selected. The stripping tower will be purchased from Air Chem Systems, Inc. (ACS) of Huntington Beach, CA. Stripping tower delivery to the site is scheduled for mid-October.



- The Highway 2 pipeline crossing was completed. A 24-inch diameter steel-cased boring was advanced beneath the highway, providing adequate room for an effluent pipeline capable of conveying anticipated Phase II flows.
- Design of the Phase I air monitoring system is ongoing. Preliminary air modeling results indicate that contaminant air emission concentrations from the pilot stripping tower will be below the quantification limits for the air analyses methods specified in the Quality Assurance Project Plan (QAPP). Consequently, alternative air sampling and analysis methods are being evaluated. Upon completion, a summary of the evaluation and the proposed alternative air analysis method will be provided to EPA and Ecology for review. The QAPP will be modified to incorporate the selected air analysis method following review and concurrence by EPA and Ecology.
- Final design of the pilot treatment sites and conveyance piping east of Highway 2 was completed. All pipelines are designed, and will be constructed, to accommodate anticipated Phase II flows.

2.0 ACTIVITIES PROJECTED TO BE COMMENCED/COMPLETED DURING NEXT REPORTING PERIOD

As specified in the Schedule for Submittal of Deliverables, the next reporting period extends through September 1990. Anticipated activities for September include completion of pilot study final design and continuation of pilot system construction. Specific activities anticipated for the next reporting period include:

- Initiate pipeline construction (by early September)
- Complete pilot treatment site construction (by late September)
- Complete design of discharge pipeline west of Highway 2 and the Little Spokane River outfall (by mid-September)
- Complete initial design of the East System air monitoring system, including evaluation of alternative air analysis methods (by late September).

3.0 ENCOUNTERED/ANTICIPATED PROBLEMS

The mid-October delivery date for the pilot air stripping tower will result in a 2-3 week delay in startup of the pilot studies (originally scheduled for October 1). The delayed delivery date is primarily the result of a longer than anticipated fabrication period (8 weeks instead of 6 weeks) required for purchase (rather than rental) of the pilot air stripper. If practicable, pilot study activities will be accelerated to get the project back on schedule.

The evaluation and selection of an alternative air sampling and analysis method (as described in Section 1) may be a problem, depending on the time required for EPA and Ecology to review the proposed method and associated changes to the QAPP. The evaluation should be completed (and recommendations developed) by the end of September. The East Area pilot studies are now scheduled to start by about December 10, and the air sampling plan needs to be finalized at least 1 month prior to implementation (to allow sufficient time for equipment acquisition and setup). Consequently, final EPA and Ecology approval for the air sampling and analysis procedures, including approval of QAPP modifications, will be needed by November 9 to keep the project on schedule.

The following schedule is proposed for submittal and review of the air monitoring modifications:

<u>Task</u>	<u>Date</u>
• County to submit proposed alternative air sampling and analysis method to EPA and Ecology for review	September 28
• EPA and Ecology to review and provide concurrence (if appropriate) with the proposed method	October 15
• County to incorporate the new method into the QAPP and submit the revised sections to EPA and Ecology for review and concurrence	October 25
• EPA and Ecology to review and provide concurrence (if appropriate) with the QAPP modifications	November 9


The County will proceed under this schedule unless EPA or Ecology indicate otherwise by September 14. If EPA or Ecology cannot meet this schedule, performance of the East System pilot studies may have to be delayed to provide EPA and Ecology additional review time. Alternatively, EPA and Ecology could provide concurrence with the selected method, and the air sampling and chemical analysis could be performed using the method-specified procedures without modifying the QAPP; this would eliminate a review step and allow EPA and Ecology additional time to review the proposed method.

This progress report describes the major remedial action activities commenced or completed during the reporting period, anticipated to be commenced or completed during the next reporting period, and some problems which were encountered and anticipated. There are secondary and peripheral activities associated with these major tasks that are not described herein. If clarification is required for any of the activities presented in this progress report, or if additional information is desired for secondary or peripheral activities, please contact me or Dean Fowler (Spokane County).

Very truly yours,

LANDAU ASSOCIATES, INC.

By:


Lawrence D. Beard, P.E.
Project Manager

LDB/njb
attachment
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cc: Neil Thompson, EPA ✓
Dean Fowler, Spokane County
Lyle Diedieker, Ecology and Environment

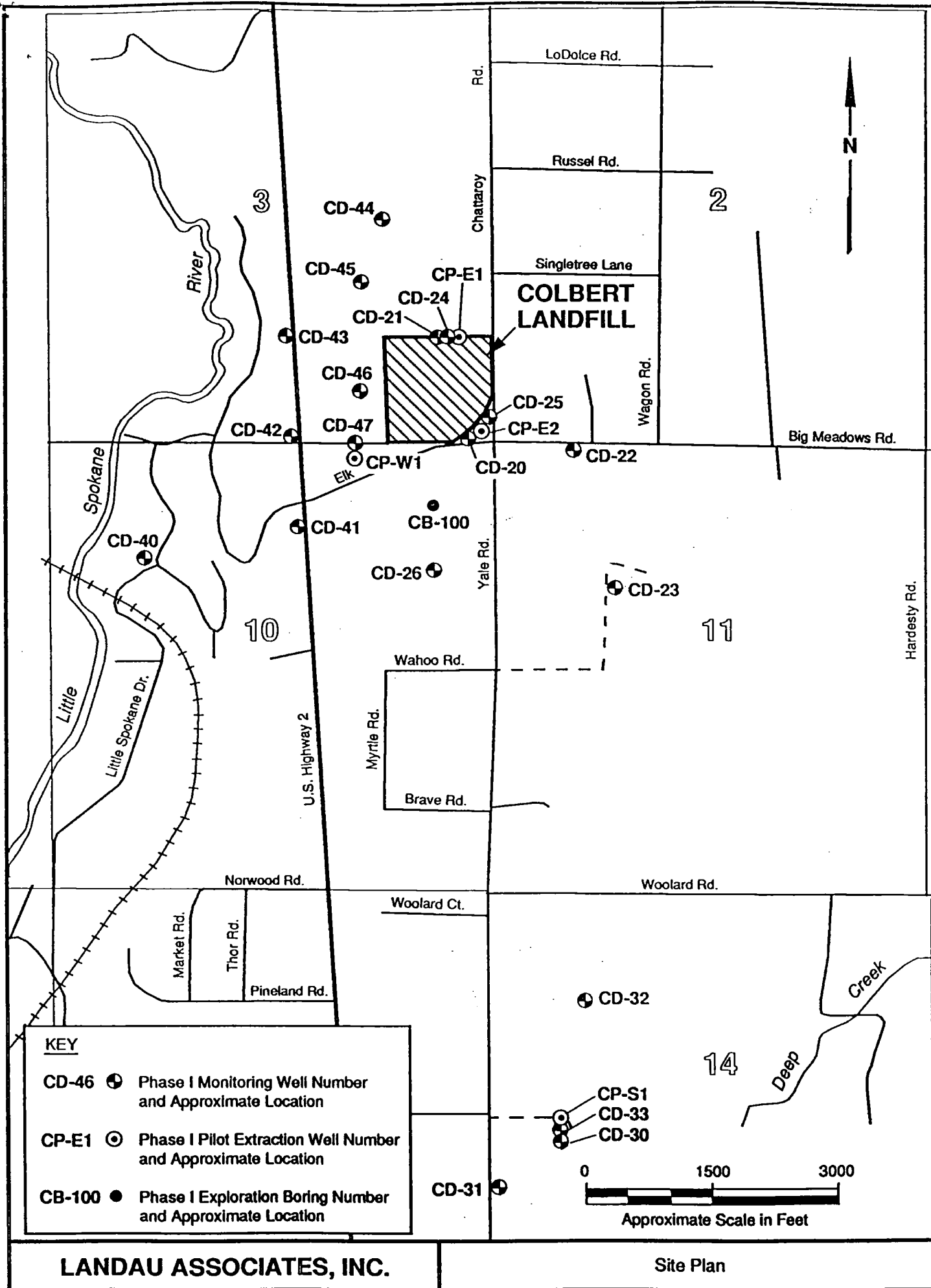


Figure 1